



Federal Communications Commission  
Public Safety and Homeland Security Bureau



# FCC Update – Wireless 911 Location Accuracy

Michigan Emerging Technology Forum  
Traverse City, Michigan  
September 28, 2021

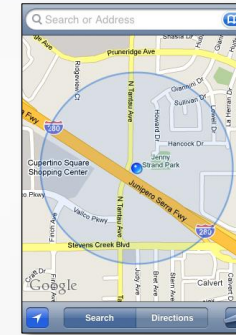
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# Wireless E911

## Horizontal Accuracy Requirements

Wireless carriers must provide:

- x/y location within 50 meters, OR
- Dispatchable Location (civic address, floor level, room/office/apartment number) for the following percentages of wireless 911 calls:



Date	Requirement
2017	40 percent of all wireless 911 calls
2018	50 percent of all wireless 911 calls
2020	70 percent of all wireless 911 calls
2021	80 percent of all wireless 911 calls

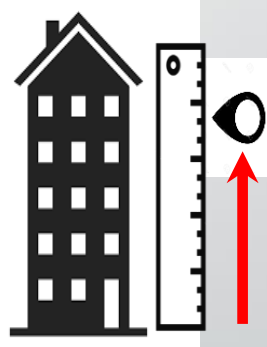
Summary of Wireless E911 Location Accuracy Requirements:

<https://www.fcc.gov/public-safety-and-homeland-security/policy-and-licensing-division/911-services/general/location-accuracy-indoor-benchmarks>

# Wireless E911

## Vertical Accuracy Requirements

Date	Requirement
April 2021	<p><b><u>First vertical accuracy benchmark:</u></b>  Nationwide carriers must deploy either (1) Dispatchable Location or (2) Z-Axis technology validated by testing to support +/-3 meter accuracy for 80% of calls.</p> <ul style="list-style-type: none"> <li>Deployment required in the <u>top 25</u> Cellular Market Areas (CMAs) (80% of CMA population or 80% of CMA buildings taller than 3 stories).</li> <li><b>June 2021:</b> AT&amp;T, T-Mobile, and Verizon did not meet the April 2021 deadline and entered into Consent Decrees with new requirements.</li> </ul>
April 2023	<p><b><u>Second vertical accuracy benchmark:</u></b>  Nationwide carriers must meet vertical accuracy requirements (using DL or Z-Axis w/3-meter accuracy) in the <u>top 50</u> CMAs.</p>
April 2025	<p><b><u>Nationwide vertical accuracy benchmark:</u></b>  Nationwide carriers must meet vertical accuracy requirements (using DL or Z-Axis w/3-meter accuracy) nationwide.</p>
<p><b>Non-nationwide carriers</b> have one additional year (i.e., until 2022, 2024, 2026) to meet the above requirements</p>	



# Z-Axis Consent Decrees

- Enforcement Bureau Orders and Consent Decrees are available at <https://www.fcc.gov/document/fcc-secures-911-vertical-location-commitments-wireless-carriers>.
- Consent Decrees require AT&T, T-Mobile, and Verizon to each pay a \$100,000 settlement amount and to meet new compliance conditions.
- June 10, 2021: Carriers must deliver available Z-axis location data nationwide to ALI databases to which they deliver horizontal location information.
- July 6, 2021: Carriers must complete initial round of Z-axis testing in one market.
- August 17, 2021: Carriers must complete additional Z-axis testing in two markets.
- September 1, 2021: Each carrier must report (1) July and August test results, (2) status of dispatchable location, and (3) availability of Z-axis capable devices.
- November 30, 2021: After consultation with public safety, carriers must submit proposal for PSAP education campaign on availability and delivery of Z-axis information.
- April 3, 2022: Carriers must comply with the vertical location requirements that would have been applicable to them on April 3, 2021.

# RAY BAUM'S Act – Section 506

## FCC Dispatchable Location Requirements

- In August 2019, FCC implemented Section 506 of RAY BAUM'S Act by adopting dispatchable location requirements for 911 calls from the following services:
  - MLTS subject to Kari's Law
  - Fixed Telephony
  - Interconnected Voice over Internet Protocol (VoIP)
  - Internet-based Telecommunications Relay Services (TRS)
  - Mobile Text
- Rules do not change wireless E911 location accuracy rules already in place. Summary of regulations is available at <https://www.fcc.gov/911-dispatchable-location>.

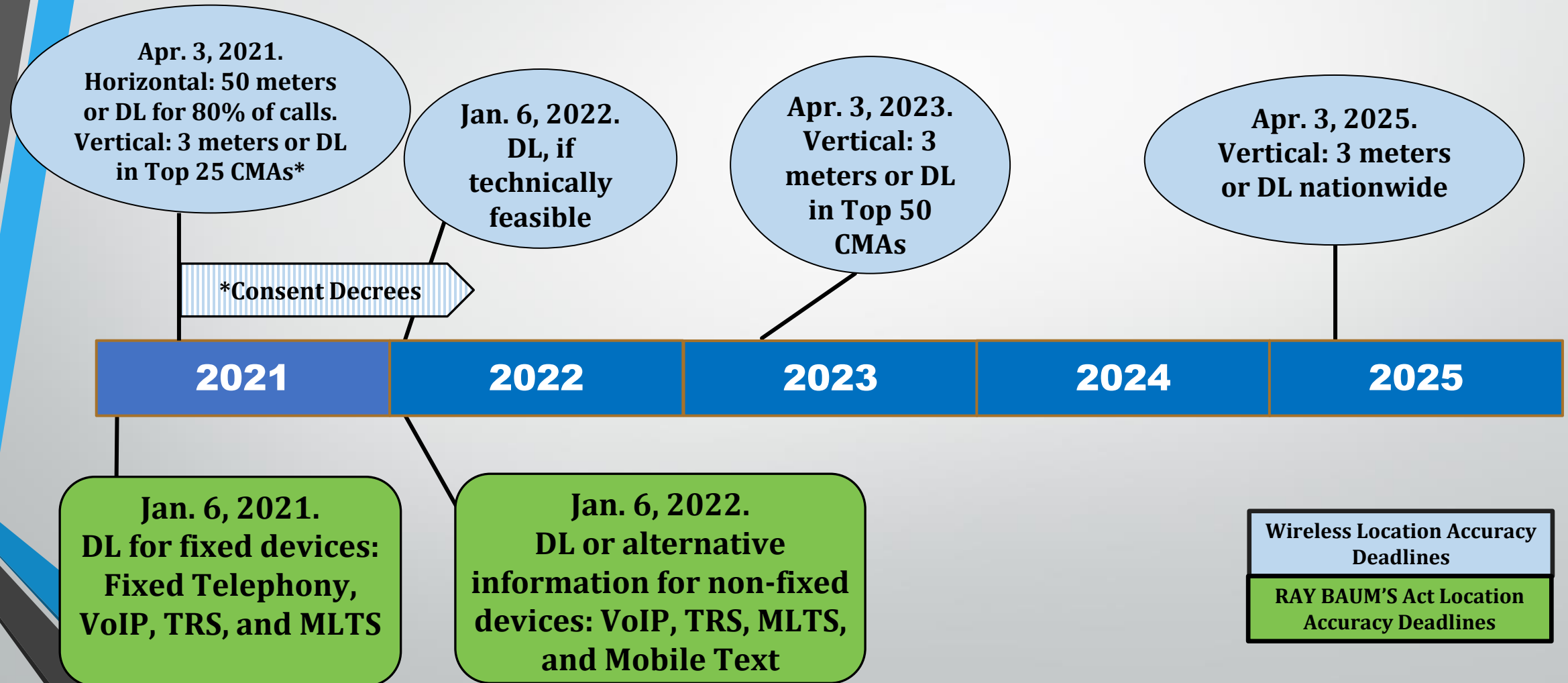
# RAY BAUM'S Act – Section 506

## FCC Dispatchable Location Requirements

- **911 Calls From Fixed Devices**
  - Must provide automated dispatchable location for all 911 calls.
  - Compliance deadline: **January 6, 2021** (one year from rule's effective date).
- **911 Calls From Non-fixed (Mobile or Nomadic) Devices**
  - Must provide automated dispatchable location for individual 911 calls if technically feasible.
  - If not technically feasible, must provide other actionable location information, e.g., coordinate-based information, with the call.
  - Compliance deadline: **January 6, 2022** (two years from rule's effective date).
  - Note: July 2020 Z-Axis Order applies same requirements and January 6, 2022 deadline to wireless carriers.



# Wireless + RAY BAUM'S Act Location Accuracy Timeline







**Thank you!**  
**Questions?**